

# (12) UK Patent Application (19) GB (11) 2 370 171 (13) A

(43) Date of A Publication 19.06.2002

(21) Application No 0024741.1

(22) Date of Filing 10.10.2000

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(51) INT CL<sup>7</sup>

H04N 5/655

(52) UK CL (Edition T )

H4F FJH

(56) Documents Cited

GB 2335325 A

EP 0986975 A

EP 0091885 A

DE 003544900 A

JP 610216579 A

JP 090109787 A

US 5102085 A

US 4805538 A

(58) Field of Search

UK CL (Edition T ) H4F FCW FJH FJX

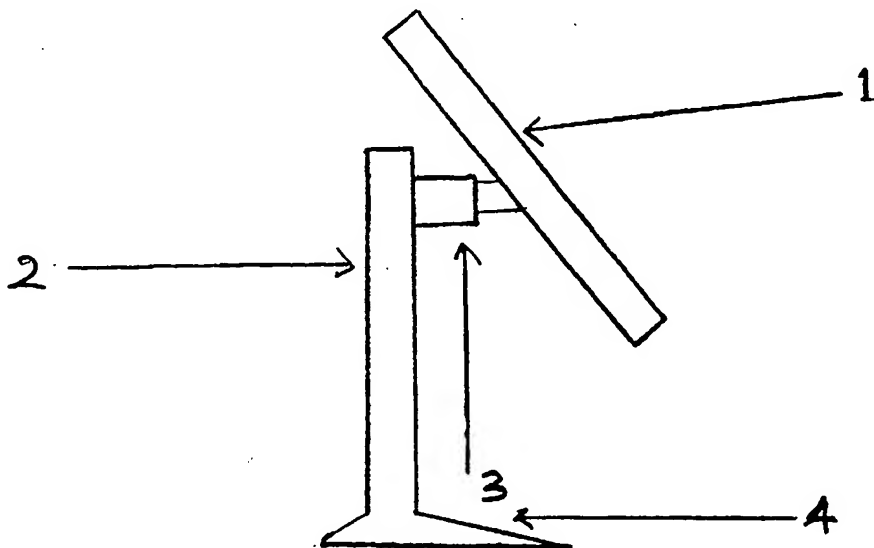
INT CL<sup>7</sup> H04N 5/64 5/645 5/65 5/655

Online: WPI,EPODOC,PAJ

(54) Abstract Title

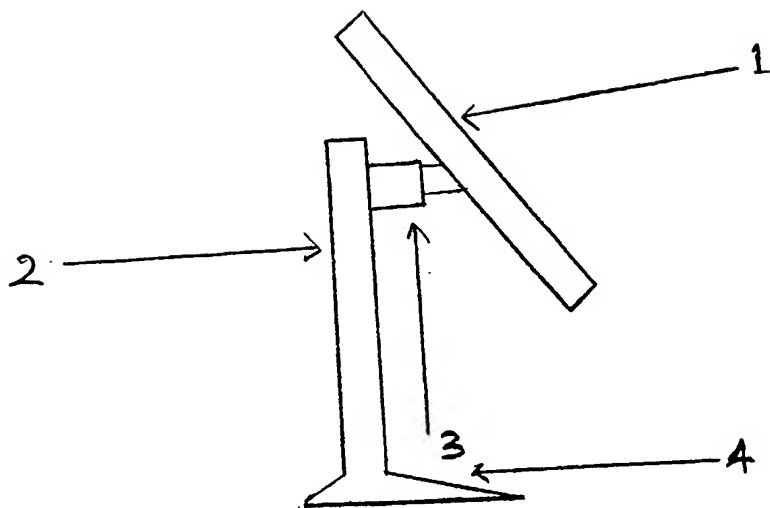
**Monitor mount with motor-driven adjustment**

(57) A flat screen visual display unit (usually used for computer image display or similar purposes), with a feature that enables the screen's height and angle to be adjusted by indirect control rather than manual adjustment. This is achieved by the use of button controls, which may be located in the base 4 of the unit or upon a remote control panel. Instructions delivered via the buttons control electric motors encased in the 'power head' 3, upon which the screen 1 is mounted. The power head 3 moves the screen to the desired position.



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## A POWER ADJUSTED DISPLAY UNIT

This Invention relates to a flat screen visual display unit (usually used for computer image display or similar purposes), with a feature that enables the screen's height and angle of vision to be regulated by button control rather than manual adjustment.

Flat screen VDU's are now popular devices and their popularity is set to grow further. All available models have to be adjusted manually to a desired angle suitable for the user. This means that the viewing angle of such monitors could not be adjusted remotely especially if they're mounted on a position that is difficult to reach or the viewer is using it from a distance.

My proposed design will have automatic adjustment that will enable the user to adjust the viewing angle by pressing button controls on the base of the VDU itself and or on a remote control panel. This means that the viewing angles can be adjusted from a distance. Additionally it provides an aspect of novelty for users that reflect the level of increasing sophistication of such devices.

This control feature is made possible by the use of electric motors encased in a unit called the 'power head' that attaches the screen to the rest of the unit. There are electrical connections that connect the power head to the control buttons located at the base of the unit (or in any other convenient location). When a particular button is pressed it sends electrical signals to the power head which then powers the motors that moves the screen to the desired direction. These instructions can also be sent via a remote unit.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawing that shows a side view of the monitor.

Referring to the drawing the flat screen 1 is mounted on a vertical surface 2 by the power head 3. The user can either control the movement by pressing the buttons at the base of the VDU 4 or from a remote control panel.

The power head contains the electric motors that control the movement of the screen whenever the relevant control button is pressed. The control buttons that are located at either the base of the VDU and or at the remote control panel activates instructions that moves the screen up and down on the vertical surface. They can also be used to tilt the screen upwards or downwards and from left to right or vice versa.

CLAIMS

- (1) A flat screen visual display unit (usually used for computer image display or similar purposes), with a feature that enables the screen's height and angle of vision to be regulated by button control rather than manual adjustment. This is achieved by the use of electric motors encased in a unit called the 'power head' that attaches the screen to the rest of the unit.
- (2) A flat screen monitor as described in claim 1 above wherein the power head that holds and moves the screen is mounted on a vertical rail like surface that enables it to move up and down with the use of button controls.
- (3) A flat screen monitor as described in claim 1 above wherein the power head that holds and moves the screen is mounted on a remote surface, which can then be adjusted by a remote control to move in various directions.
- (4) A flat screen monitor as described in claims 1 to 3 above that contains control buttons that can be used to tilt the screen upwards or downwards and from left to right or vice versa.
- (5) A flat screen monitor as described herein with reference to the accompanying drawing.



INVESTOR IN PEOPLE

Application No: GB 0024741.1  
Claims searched: 1-4

Examiner: J. C. Cowen  
Date of search: 9 April 2002

## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:  
UK Cl (Ed.T): H4F FCW,FJH,FJX  
Int Cl (Ed.7): H04N 5/64,5/645,5/65,5/655  
Other: WPI,EPODOC,PAJ

### Documents considered to be relevant:

Category	Identity of document and relevant passage		Relevant to claims
X	GB 2335325 A	IMS Innovation Ltd - see pg 3, line 33-pg 4, line 2 (tilt control switch)	1-3
X	EP 0986975 A1	Messkon AG - see abstract & figure 1	1 & 3
X	EP 0091885 A2	Onofrio Flora - see abstract	1-4
X	US 5102084	Hyundai Electronics Ind Co Ltd - see especially figure 3c & column 3, line 66 - column 4, line 41 which demonstrate rack & pinion arrangement to effect height adjustment.	1-3
X	US 4805538	JG Furniture Systems Inc - see abstract	1,3
X	DE 3544900 A1	Minox GmbH - see abstract & figure 2	1-3
X	JP 610216579	NEC - see abstract & figure 3	1 & 3
X	JP 090109787	Kansei KK - see abstract & figures	1

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

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